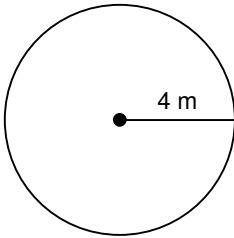


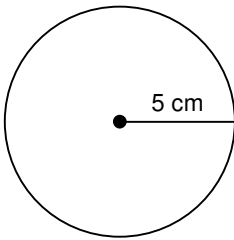
Circle Homework 3**Multiple Choice**

Identify the letter of the choice that best completes the statement or answers the question.

- _____ 1. What is the area of this circle?
Use $\pi = 3.14$ and give the answer to the nearest square unit.



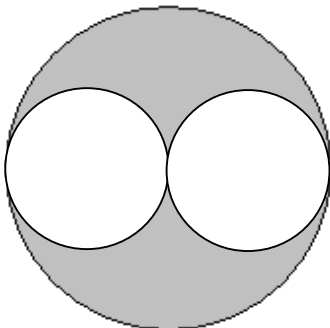
- _____ 2. Find the area of this circle. Give the answer to the nearest square millimetre.



- _____ 3. A circle has radius 20 millimetres. Find its area.
Use $\pi = 3.14$ and give the answer to the nearest square unit.
- a. 126 square millimetres c. 63 square millimetres
b. 1256 square millimetres d. 3944 square millimetres

Problem

4. In this diagram, the outer circle has a diameter 6 cm. The 2 smaller circles are identical. What is the area of the shaded regions? Give the answer to the nearest square millimetre. Show your work.



Circle Homework 3

Answer Section

MULTIPLE CHOICE

- | | | | |
|-----------|------------------|---------------------------|----------------------------------|
| 1. ANS: C | DIF: Moderate | REF: 6.3 Area of a Circle | |
| LOC: 8m36 | TOP: Measurement | | KEY: Knowledge and Understanding |
| 2. ANS: A | DIF: Moderate | REF: 6.3 Area of a Circle | |
| LOC: 8m36 | TOP: Measurement | | KEY: Knowledge and Understanding |
| 3. ANS: B | DIF: Moderate | REF: 6.3 Area of a Circle | |
| LOC: 8m36 | TOP: Measurement | | KEY: Knowledge and Understanding |

PROBLEM

4. ANS:
Methods may vary. Sample:
- Radius of outer circle = $\frac{6 \text{ cm}}{2} = 3 \text{ cm}$
- Area of outer circle = $\pi \times (3 \text{ cm})^2 \approx 28.27 \text{ cm}^2$
- Radius of smaller circle = $\frac{3 \text{ cm}}{2} = 1.5 \text{ cm}$
- Area of 2 smaller circles = $2 \times \pi \times (1.5 \text{ cm})^2 \approx 14.14 \text{ cm}^2$
- Area of shaded regions = $28.27 \text{ cm}^2 - 14.14 \text{ cm}^2 = 14.13 \text{ cm}^2$
- The area of the shaded regions is about 14.13 cm^2 .

DIF: Difficult	REF: 6.3 Area of a Circle	LOC: 8m36
TOP: Measurement	KEY: Communication	